

PATENT SPECIFICATION



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COMPLETE SPECIFICATION.

Improvements in and relating to Protective Goggles for the Use of Airmen, Motorists and others.

I, LÉON VIENOT, of 19, rue Duphot, Paris, France, a citizen of the French Republic, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to goggles used by airmen, motorists, motorcyclists, and others, for the purpose of protecting their eyes from dust and wind.

It has for its object improvements in the construction and the combination and arrangement of the various components forming each eye-piece of the said goggles, for the particular purposes of carrying out easier and more rapidly the placing in position and removal of the holders carrying the glasses and the protective padding or beading, while at the same time insuring a safer fitting thereof as well as providing regulating means for the ventilation of the interior of the eye-piece.

The invention consists in forming the mounting or eye-piece proper with a split at the side which is opposite to the nose-piece linking the two mountings along the whole height thereof, the two edges of such split being brought nearer to or drawn apart from each other by means of a cam lever co-operating with cam projections carried on each of the said edges, and the invention consists further in the provision of particular ventilating means to each eye piece which can be easily adjusted.

Such improvements will be more clearly understood from the following description of a construction given as an example of improved goggles according to the invention. Reference is made to the diagrammatic annexed drawings, wherein:

Figure 1 is a general view showing the improved goggles in perspective.

Figures 2, 3 and 4 are perspective views of the glass-holder, the eye-piece proper or mounting and the fitting which carries the protective padding respectively, of a goggle eye-piece.

Figure 5 is a top plan view of a mounting or eye-piece proper.

Figures 6 and 7 are fragmentary views

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showing in perspective the fastening devices of the half-mountings in closed and opened positions respectively.

Figure 8 is an end fragmentary view showing the half-mountings in an opened position.

Figure 9 is a perspective fragmentary view showing the lugs and eyelet parts which serve to support the mounting, on the nose piece.

Figure 10 is a sectional view showing in detail the disposition of the glass-holder in the eye-piece mounting.

Figure 11 is a sectional view in detail of the ventilation regulating device.

Figure 12 is a front view of the said regulating device and

Figures 13 and 14 are plan views of the arrangements shown in Figures 6 and 7 respectively.

Each of the eye-pieces which are linked together by the nose-piece or bridge 1, has an eye-piece proper 2 within which are held, on the front part thereof a holder 3 which carries the glass 4, and on the rear part thereof a fitting 5 which carries the rubber padding to fit round the eye; the said padding which is not shown on the drawing, may be sewn on to the fitting 5 through holes 6 provided thereon for that purpose, and may be in the shape of a pneumatic beading for instance.

According to one of the features of the invention, the mounting 2 may be opened or closed for the introduction or removal of the holder 3 and the fitting 5, for such purpose it is formed of two parts which are designed for free engagement into one another on the side of the nose-piece 1 (Fig. 9), and are fixed together on a lug 7 fitted with an eyelet 8 engaging with one branch of the nose-piece 1. Through such arrangement, the edges 9 and 10 of the two parts of the mounting may be kept close together or away from one another at will, according to the position given to a cam-lever 11. The hinged-head of the said lever is formed with two projections or bossés 12; the latter are bevel-cut in the shape of cams, they are connected by a pin 13 and have arranged between them two stationary projections 14 also bevel-cut in the shape of cams

which are solid with the lugs 15 fastened on the edges of each half of the mounting.

Fitting 5 which carries the padding, has an eyelet 16 adapted to fit between eyelets 17 and 18 carried on the edges of each half of the mounting.

When the lever 11 is in the open position (Figs. 7, 8 and 14), the bevel-cut portions of the cams 12 and 14 which are of corresponding shape engage one another so that the edges 9 and 10 of each half-mounting are drawn apart to allow easy removal or placing into position of the holder 3 and fitting 5.

When the lever 11 is depressed (Figs. 1, 3, 5, 6, and 13), the bevel-cut portions of the projections 12 are caused to take a reactive step with the corresponding portions of projections 14 which allows the edges 9 and 10 of the half-mountings to close down on and come into contact with one another, whereby the holder 3 and fitting 5 are held fast. As a matter of fact a safer setting of holder 3 could be provided by making therein a groove 19 adapted to receive the top flange 20 on mounting 2.

Lever 11, in the closed position, engages by an opening 21 cut out therefrom, with eyelets 17, 18 and 16 provided on the half-mountings and on the fitting 5 which carries the padding respectively. Through the structure formed by the said juxtaposed eyelets, is inserted a fastening member which is preferably in the shape of a hook fixed on the end of the elastic band which serves to keep the goggles on the head.

With regard to ventilation, the air is let in through narrow slits 22 provided at the top of an air strainer consisting of a small case 23 fastened on the mounting 2, the combination of the last two constitutes a closed space communicating with the air outside only by means of the narrow slits 22. The wall of the mounting under strainer 23 has a vent 24, shaped as a circumferential segment in the example illustrated, such vent being adapted to be more or less screened according to requirements, by an inlet regulating disc 25 designed to revolve about a cylindrical projection 26 provided on the inner wall of the mounting, this disc has a notch 29 cut out in the shape of an arcuate passage registering with the vent 24. It will be readily understood that, by causing the

disc 25 to revolve the whole of the extent of the notch 29 or alternatively only a part of it may be made to coincide with the vent 24 which is thus completely or partially shut off as the case may be. The setting of the regulating disc 25 in the position selected is effected by means of a screw 27 which fits into the inner thread of the projection 26 while its head presses on the disc 25.

The air admitted inside the eye-piece escapes through apertures 28 which are provided with wire-gauze.

It is obvious that modifications and detail improvements may be provided without departing from the spirit of the invention.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

1. Goggles for airmen, motorists and other users, in which each eye-piece has three independent parts constituted respectively by a mounting, a glass-holder and a fitting carrying the padding or heading of rubber or other material, characterised in that the mounting or eye-piece proper is split at the side which is opposite to the nose-piece linking the two mountings, along the whole height thereof, and that the two edges of such split can be brought nearer to or drawn apart from each other by means of a cam-lever co-operating with cam projections carried on each of the said edges, substantially as described.

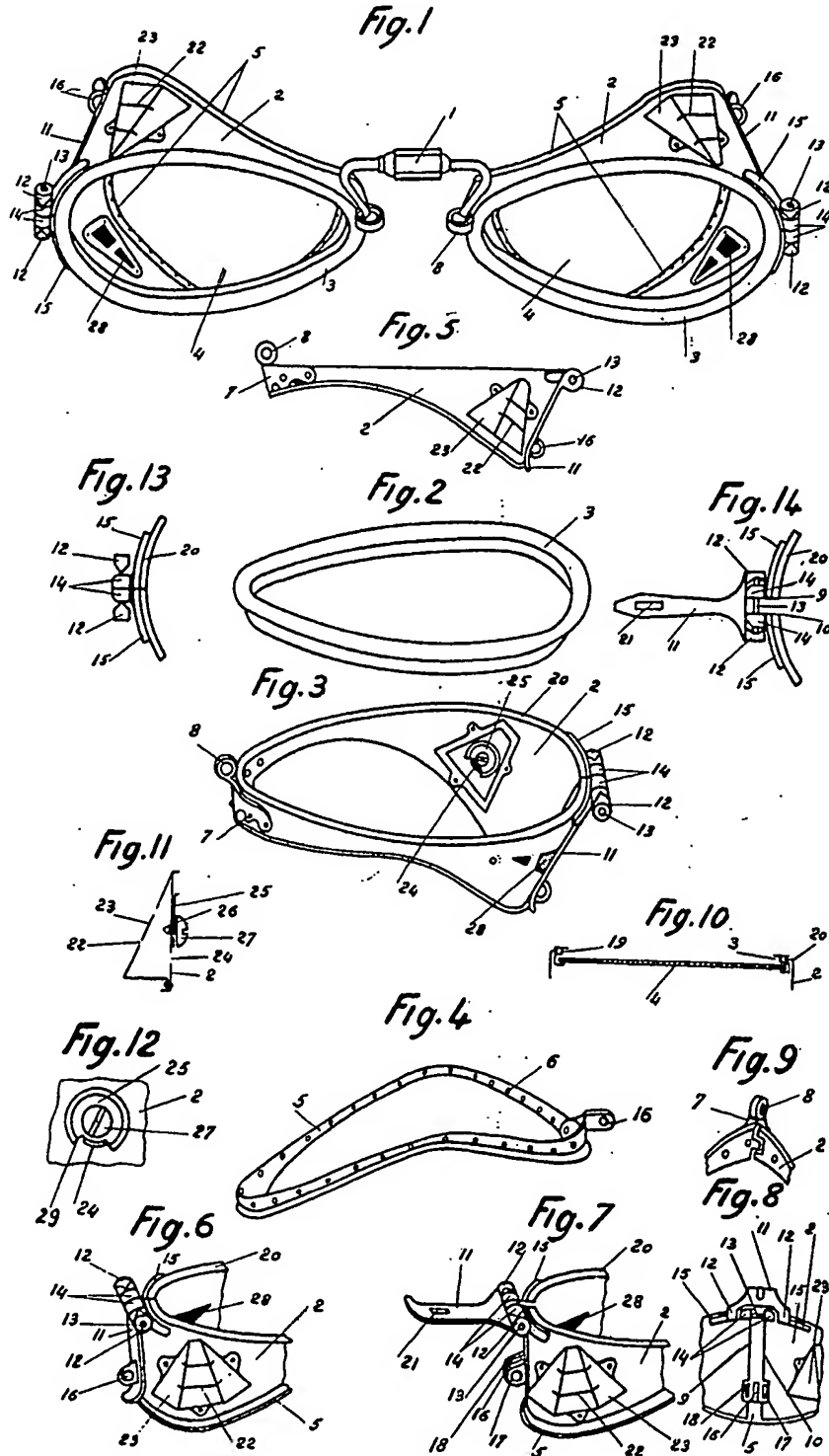
2. Goggles as claimed in claim 1, in which the ventilation within each eye-piece is effected and regulated by means of a device comprising a small case or strainer having narrow inlet slits which is fastened on the mounting, an inlet vent provided in the wall of said mounting, and a regulating disc adapted to more or less shut off the said vent, substantially as described.

3. In goggles as claimed in claim 1, the provision of means for securing the glass-holder within the mounting, comprising an inwardly disposed flange provided at the top of the mounting and fitting into a groove provided on the glass-holder, substantially as described.

Dated this 17th day of April, 1931.

FELL & JAMES,
Agents for the Applicant.

[This Drawing is a reproduction of the Original on a reduced scale.]



Charles & Read Ltd. Photo Litho.